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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

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| Inventors: | Hisao KOGA, et al. | Art Unit: 2611 |
| Application No.: | 10/669,592 | |
| Filed: | September 23, 2003 | |
| For: | COMMUNICATION APPARATUS | |

CERTIFICATION UNDER 37 CFR §1.97(e)(2)

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:

In fulfillment of 37 CFR 1.97(c)(1) and 1.97(e)(2), it is hereby certified that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the attached Information Disclosure Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,

James E. Ledbetter
Registration No. 28,732

Date: August 18, 2006

JEL/jpf
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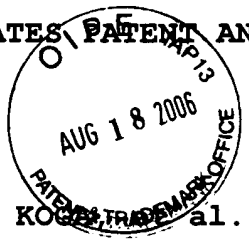
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE




In re the Application of

Inventors: Hisao KOGA et al. Art Unit: 2611

Application No.: 10/669,592

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:

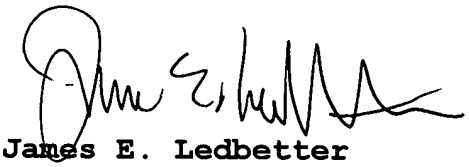
Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

08/21/2006 HALI11 00000119 10669592
01 FC:1806
180.00 OP

The fee under 37 CFR 1.17(p) is attached.

Respectfully submitted,



Date: August 18, 2006

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FORM PTO-1449 (Rev. 4/92) U.S. Department of Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use several sheets if necessary)



| ATTY. DOCKET NO. | SERIAL NO. |
|---|---|
| L8612.04115 | 10/669,592 |
| APPLICANT: Hisao KOGA, et al. | |
| FILING DATE: September 23, 2003 | GROUP: 2611 |

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---|---|---|---|---|---|---|---|
| | | 6 4 7 3 4 0 9 | 10/2002 | Malvar | | | |
| | | 6 4 8 7 5 7 4 | 11/2002 | Malvar | | | |
| | | 6 4 9 6 7 9 5 | 12/2002 | Malvar | | | |
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## FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES | TRANSLATION NO |
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| | | OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |
|---|---|---|
| | | J. ALHAVA, et al.; "Adaptive Sine-Modulated/Cosine-Modulated Filter Bank Equalizer for Transmultiplexers," ECCTD'01-European Conference on Circuit Theory and Design, Aug. 28-31, 2001, Espoo, Finland, pp. III-337-340. |
| | | A. VIHOLAINEN, et al.; "Implementation of Parallel Cosine And Sine Modulated Filters Banks For Equalized Transmultiplexer System," 2001, IEEE, pp. 3625-3628. |
| | | A. VIHOLAINEN, et al.; "Complex Modulated Critically Sampled Filter Banks Based On Cosine And Sine Modulation," Institute of Communications Engineering, Tampere University of Technology, 2002, IEEE, pp. I-833-836. |
| | | J. ALHAVA, et al.; "Exponentially-Modulated Filter Bank-Based Transmultiplexer," Tampere University of Technology, 2003, IEEE, pp. IV-233-236. |
| | | J. ALHAVA, et al.; "Efficient Implementation of Complex Exponentially-Modulated Filter Banks," Tampere University of Technology, 2003, IEEE, pp. IV-157-160. |
| | | Y. YANG, et al.; "DSP Implementation of Low-Complexity Equalizer For Multicarrier Systems," Institute of Communications Engineering, Tampere University of Technology, 2003, IEEE, pp. 271-274. |

| EXAMINER | DATE CONSIDERED |
|---|---|
| | |

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])